

200100064

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

DICTURS, THERE HAS BEEN PRESENTED TO THE

## Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE IGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORITHOGIT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT OF BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'92B38'

In Jestimonn Therest, I have hereunto set my hand and caused the seal of the Plant Pariety Protection Office to be affixed at the City of Washington, D.C. this twenty-fourth day of April, in the year of our Lord two thousand one.

alunk fort

Acting Commissioner Plant Varioly Protection Office Agricultural Markoting Service y of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

# APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(mandonona and miormanon cone		eversej	-			
1. NAME OF OWNER Pioneer Hi-Bred Internati			2. TEMPORARY DESIGNA EXPERIMENTAL NAME	TION OR	2. VARIETY NAME 92B38	
4. ADDRESS (Street and No., or R.F.D. No. 7300 N. W. 62 <sup>nd</sup> Avenue P. O. Box 1004 Johnston, IA 50131		5. TELEPHONE (include 515-254-2638	area code)	FOR OFFICIAL USE ONLY		
				6. FAX (include area cod 515-253-2288	ie)	FILING DATE
7. IF THE OWNER NAMED IS NOT A "PER: ORGANIZATION (corporation, partnership Corporation		8. IF INCORPORA STATE OF INC	ATED, GIVE ORPORATION	9. DATE OF INCORPOR	RATION	1/18/2001
10. NAME AND ADDRESS OF OWNER R Daria Schmidt, Ph.D. 7300 NW 62 <sup>nd</sup> Ave. P.O. Box 1004 Johnston, Iowa 50131-1004		THIS APPLICATION.  Tean Bromert  100 NW 62 <sup>nd</sup> A  100 NW 62nd A  1	(copy) ve.	receive all papers)		FILING AND EXAMINATION FEES:  \$ 2,705.00  R DATE 1/18/2001  CERTIFICATION FEE  \$ 300  DATE 3 30/01
11. TELEPHONE (Include area code) 515-254-2638	12. FAX (Include area code) 515-253-2288		-MAIL .dtdh@phibrec	l.com	14. CRC Soybean	P KIND (Common Name)
f. X Voucher Sample (2,500 viable	ng History of the Variety notness ion of Variety	gated varieties,	20. DOES THE O VARIETY BE IF YES, WHICE		OF THIS CLASSES?	NETY BE SOLD AS A CLASS OF riety Protection Act)  NO (If "no," go to item 22)  YES NO  YES NO  YES NO
g.	\$2,705), made payable to "Treasurer ty <i>Protection Office)</i>	of the United	IF YES, SPEC NUMBER 1, 2			REGISTERED CERTIFIED
22. HAS THE VARIETY (INCLUDING ANY HAT FROM THIS VARIETY BEEN SOLD, DISPORTED THE COUNTRIES?  YES  IF YES, YOU MUST PROVIDE THE DAT FOR EACH COUNTRY AND THE CIRCU	POSED OF, TRANSFERRED, OR US	EED IN THE U.S. OR	23. IS THE VARIE PROPERTY F	ETY OR ANY COMPONENT OF RIGHT (PLANT BREEDER'S RI	THE VARIET	PROTECTED BY INTELLECTUAL ENT)? NO E AND ASSIGNED
24. The owners declare that a viable sample of for a tuber propagated variety a tissue cuit.  The undersigned owner(s) is(are) the own and is entitled to protection under the prov.  Owner(s) is(are) informed that false representations.	ture will be deposited in á public repo er of this sexually reproduced or tube visions of Section 42 of the Plant Varie	esitory and maintained or propagated plant val ety Protection Act.	for the duration of the liety, and believe(s) th	certificate.	•	• • • • • • • • • • • • • • • • • • • •
SIGNATURE OF OWNER	uck		SIGNATURE OF (	DWNER		
NAME (Please print or type) Daria H. Schmidt			NAME (Please pri	nt or type)		
CAPACITY OR TITLE  Director, Associative Genetics/Technology Integr S&T-470 (2-99) designed by the Plant Variety Pr	V 1	Replaces STD 470	CAPACITY OR TI		rucijone and ir	DATE  Information collection burden statement)
out -+/ o (z-99) designed by the Plant Variety Pr	overwork chines with Anctalettect prog	. леркасез э I <i>D-</i> 4/0 (	A-aol Muicu is obsole	.e. (See reverse for insti	uuuuno diid il	normation conscion purcen statement)

#### INSTRUCTIONS

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 vintreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

Homepage: http://www.ams.usda.gov/science/pvp.htm

#### ITEM

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
  - (1) identify these varieties and state all differences objectively;
  - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
  - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 21. See Section 83 of the Act for the Contents and Term of Plant Variety Protection.
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 5.5 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)
- 23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)
- U.S. Patent 4,940,835 issued to Shah et al. as per the Roundup Ready Gene in this variety

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the variety names proposed by contacting: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (2-99) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces STD-470 (6-98) which is obsolete,

## Exhibit A. Origin and Breeding History of the Variety

Soybean Variety 92B38

Variety 92B38 evolved from a 1995 cross of 92B52/////ST2550/////A1900////9304///9412///A4715//9392<2/A5403G40-3-2.

It is an F5-derived variety, which was advanced to the F5 generation by modified single-seed descent. The F6 progeny row of 92B38 was grown in the winter of 1997 in Chile. Subsequently, 92B38 has undergone three years of extensive testing and purification and has been observed by the breeder to be uniform and stable for all plant traits from generation to generation, with no evidence of variants. On the basis of resistance to Roundup branded herbicides, BSR tolerance and Phytophthora tolerance, variety 92B38 was assigned a commercial number.

The purification increase of 0.15 acres was grown during the winter of 1998 in Chile. Five acres of 92B38 (breeders seed) were grown in the summer of 1999. Additionally, 75 acres of 92B38 were grown in the winter of 1999. 1,790 acres of parent seedstock (foundation seed equivalent) were grown in the summer of 2000 and approximately 80,550 bushels harvested.

### Exhibit B. Statement of Distinctness

Soybean Variety 92B38

Variety 92B38 is most similar to variety 92B52. Both have purple flowers, light tawny pubescence, and yellow seeds with brown hila. However, 92B38 is resistant to Roundup branded herbicides and 92B52 is susceptible. Additionally, 92B38 and 92B52 differ in isozyme marker alleles at loci ACO4 and PHI1 (Table 1).

Variety 92B38 is also similar to variety 92B05. Both have purple flowers, yellow seeds with brown hila, and are resistant to Roundup branded herbicides. However, 92B38 has light tawny pubescence and 92B05 has tawny pubescence. Additionally, 92B05 is resistant to race 1 of *Phytophthora megasperma* var. sojae and 92B38 is susceptible. Lastly, 92B38 and 92B05 differ in isozyme marker alleles at loci DIA and PHI1 (Table 1).

Variety 92B38 is also similar to variety 92B36. Both have purple flowers, yellow seeds with brown hila, and are resistant to Roundup branded herbicides. However, 92B38 has light tawny pubescence and 92B36 has tawny pubescence. Additionally, 92B38 and 92B36 differ in isozyme marker alleles at loci DIA, IDH1 and PHI1 (Table 1).

Variety 92B38 is also similar to variety S42-K2 from Novartis Seeds. Both have purple flowers and yellow seeds with brown hila, and are resistant to Roundup branded herbicides. However, 92B38 has light tawny pubescence and S42-K2 has tawny pubescence. Additionally, 92B38 has high seed protein peroxidase activity and S42-K2 has low seed protein peroxidase activity.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

EXHIBIT C (Soybean)

### OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max (L.) Merr.)

NAME OF AP					FOR OFFICIAL USE ONLY
Pioneer	Hi-Bred Internat	cional, Inc.			PVPO NUMBER
7300 N.	reet and No. or R.F.D. No., C W. 62 <sup>nd</sup> Avenue	ity, State, and ZIP Code)			W200100064
P. O. Bo Johnston					VARIETY NAME 92B38
					TEMPORARY OR EXPERIMENTAL DESIGNATION XB25S00
PLEASE R below.	EAD ALL INSTRUCT	FIONS CAREFULLY: Place	the appropriate numbe	r that describes the var	ietal character of this variety in the boxes
Place a zero quantitativo	o in the first box (e.g	9 9 9 or	) when num	ber is either 99 or less	or 9 or less respectively. Data for
plant chara	cters should be based	on a minimum of 100 plants	. Comparative data sho	ould be determined from	n varieties entered in the same trial. Royal
Horticultur	al Society or any reco	gnized color standard may b	e used to determine plan	nt colors; designate syst	em used:
Please answ	ver all questions for yo	ur variety; lack of response	may delay progress of yo	our application.	
A MODE	WOLOGY.				
A. MOKE	PHOLOGY				
Seed Shape	e:				
1	1 = Spherical (L/W, L/T, and	T/W ratios < 1.2)		cal-Flattened > 1.2; L/T ratio	< 1.2)
	3 = Elongate (L/T ratio > 1.2	2; T/W ratio < 1.2)	4 = Elongar (L/T ratio	te-Flattened > 1.2;T/W ratio >	· 1.2)
Seed Coat	Color:				
1	1 = Yellow	2 = Green	3 = Brown	4 = Black	5 = Other (Please Specify)
Seed Coat 1	Luster:				
1	1 = Dull	2 = Shiny			
Seed Size:					
	grams/100 s	eeds			
1 7	<b>6</b>				
1 7  Hilum Colo	<u> </u>				

# A. MORPHOLOGY (Continued)

**Cotyledon Color:** 

$$\boxed{1} \quad 1 = \text{Yellow} \qquad 2 = \text{Green}$$

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Seed Protein Peroxidase Activity:

$$\boxed{2} \quad 1 = Low \qquad 2 = High$$

**Hypocotyl Color:** 

4 = Dark Purple extending to unifoliolate leaves ('Hodgson', 'Coker', or 'Hampton 266A')

Leaflet Shape:

Flower Color:

$$\boxed{2}$$
 1 = White  $\boxed{2}$  = Purple  $\boxed{3}$  = White with a Purple Throat

**Pod Color:** 

$$\boxed{2} \quad 1 = \text{Tan} \qquad \qquad 2 = \text{Brown} \qquad 3 = \text{Black}$$

**Pubescence Color:** 

$$\boxed{3}$$
 1 = Gray 2 = Brown (Tawny) 3 = Light Tawny

Plant Habit:

Maturity Group:

**Maturity Subgroup:** 

Bacterial

B. DISEASE REACTIONS (Continued)	0 = Not Tested	1 = Susceptible 2 :	= Resistant 3 = Tolerant
Fungal			2001000
Brown Spot (Septoria glycines Hemi	mi)		
Frogeye Leaf Spot (Cercospora sojin	a Hara)		
0 race 1 0	race 2	0 race 3	0 race 4
0 race 5	race 6	Other (Plea	use Specify)
Target Spot (Corynespora cassiicola	(Berk. & Curt.) Wei	)	
Downey Mildew (Peronospora trifoli	orum var. manchurid	ca (Naum.) Syd. ex Gäum	)
Powdery Mildew (Microsphaera diff	usa Cke. & Pk.)		
3 Brown Stem Rot (Phialophora grega	ata (Allington & Chan	nberlain) W. Gams.)	
Stem Canker (Diaporthe phaseolorus	m (Cke. & Ell.) Sacc.	var. caulivora Athow &	Caldwell)
Pod and Stem Blight (Diaporthe pha	seolorum (Cke. & Ell	.) Sacc. var. sojae (Lehm	an) Wehm.)
0 Purple Seed Stain (Cercospora kikuc	hii (T. Matsu. & Ton	10yasu) Gardener)	
1 Rhizoctonia Root Rot (Rhizoctonia se	olani Kühn)		
Phytophthora Root Rot (Phytophthora megas	perma Drechs. f. sp.	glycinea (Kuan & Erwin)	)
0 race 1 0 race 8	0 race 15	0 race 22	
		0 race 23	
1 race 3 0 race 10	0 race 17	0 race 24	
0 race 4 0 race 11	0 race 18	0 race 25	
1 race 5 0 race 12	0 race 19	0 race 26	
0 race 6 0 race 13	0 race 20	Other (Please Specif	ỳ)
0 race 7 0 race 14	0 race 21		<del></del>
Bud Blight (Tobacco Ringspot Virus)	)		
Yellow Mosaic (Bean Yellow Mosaic	Virus)		

ь. и	ISEASE REACTIONS (Continuea)	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
1	Cowpea Mosaic (Cowpea Chlorotic	: Virus)			_ ~ ~	•
1	Pod Mottle (Bean Pod Mottle Virus	s)		200	1000	6
1	Seed Mottle (Soybean Mosaic Virus	s)				
Nemat	tode			i.		
Soybea	an Cyst Nematode (Heterodera glycine	s Ichinohe)				
0	race 1 0 race 4	0 race 9				
0	race 2 0 race 5	1 1 .	porilroor			
-01	race 3   0   race 6   1/5   /9   April 2002	0 Other	(Please Specify)			
0	Lance Nematode (Hoplolaimus colu	mbus Sher)				
0	Southern Root Knot Nematode (Med	loidogyne incognita (K	Kofoid & White) Chi	itwood)		
0	Northern Root Knot Nematode (Me.	loidogyne hapla Chitv	vood)			
0	Peanut Root Knot Nematode (Meloi	dogyne arenaria (Neal	) Chitwood)			
0	Reniform Nematode (Rotylenchus re	eniformus Linwood &	Olivera)			
0	Javanese Nematode (Meloidogyne ja	vanica (Treub) Chitw	ood)			
0	Other Nematode (Please Specify)					
C. PH	YSIOLOGICAL RESPONSES	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant	
3	Iron Chlorosis on Calcareous Soil					
0	Phosphorus	0 Other (	Please Specify)		<del></del>	
0	Boron					
0	Aluminum					
0	Salt					
0	Drought					

			<del></del>		
	SECT REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	3 = Tolerant
0	Mexican Bean Beetle (Epilachna var	ivestis Mulsant)			
				"200	100064
0	Potato Leaf Hopper (Empoasca faba	e (Harris))			
	•				
$\begin{bmatrix} 0 \end{bmatrix}$	Other (Please Specify)				
<u>Е. Н</u>	ERBICIDE REACTIONS	0 = Not Tested	1 = Susceptible	2 = Resistant	
2					
	Metribuzin				
0	<b></b>				
	Bentazone				
	G 10 1				
	Sulfonylurea				
2	Charles				
	Glyphosate				
0	Glufosinate				
	Giurosmate				
0	Pendimethalin	*			
	rendimethami				
0	Other (Please Specify)				
	Other (Fieuse Specify)				
F. TR	ANSGENIC COMPOSITION				
Has the	development of the subject variety in	cluded the insertion	of genetic material f	rom an organism	other than a soybean
or, the	removal of genetic material from the a please complete the following informat	application variety?			]
n yes,	bease complete the following information	non requests*. Use	additional pages if n	ecessary.	YES NO
1. Ple	ase state the vector's name:				
2. Ple	ase state the vector components:				
3. Ple	ase describe the genetic material succe	ssfully transferred i	into the subject varie	ty:	
4. Ple	ase describe the insertion protocol:	·	_	•	
	•				
	ature citation(s) explaining the four in genic Composition" portion of this form		above may be an acc	eptable alternativ	ve to completion of the
This sec	tion is fully address in the following pub	lication. Specific det	ails of the vector comp	ponents and insert	elements are
summar	ized in Figure 1 and Table 1 on page 145	o <b>3</b> .			
Padgette 35:1451	s, S.R. et al. Development, Identification -1461	, and Characterization	n of a Glyphosate-Tole	erant Soybean Line	e. 1995. Crop Science.

#### G. BIOCHEMICAL MARKERS

· 200100064

Please describe any biochemical information here, which you believe will be helpful in further describing the subject variety (e.g. Simple Sequence Repeats, Restriction Fragment Length Polymorphisms, Isozymic Characterization). Use additional pages if necessary.

H. COMMENTS

# Exhibit D. Additional Description of the Variety

Soybean Variety 92B38

In Exhibit C we have identified variety 92B38 as susceptible to bacterial blight, brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle and seed mottle.

This does not mean that variety 92B38 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 92B38 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as "susceptible".

Variety 92B38 is an early Group II variety. If Group II varieties are divided into tenths, the relative maturity of 92B38 is 2.3.

Table 1. Isozyme marker loci data for 92B38.

		1	<b>7</b> ####&###</th></tr><tr><th></th><th></th><th>PHI</th><th>2</th></tr><tr><th></th><td></td><td>PGM1</td><td></td></tr><tr><th></th><td></td><td>MP</td><td>4444</td></tr><tr><th></th><td></td><td>MDH</td><td>മനാന</td></tr><tr><th></th><td></td><td>DH2</td><td></td></tr><tr><th></th><td>Marker</td><td>된</td><td>2 2 2</td></tr><tr><th></th><td>lsozyme 1</td><td>ENP</td><td>4444</td></tr><tr><th></th><td></td><td>DIA</td><td>A <u>B</u> A</td></tr><tr><th></th><td></td><td>ACP</td><td>4444</td></tr><tr><th></th><td rowspan=2></td><td>ACO4</td><td>~ ~ ~ <b>c</b></td></tr><tr><td></td><td>AC03</td><td></td></tr><tr><th></th><td></td><td>ACO2</td><td>0000</td></tr><tr><th>٠</th><th></th><th>Variety</th><th>Pioneer 92B38 Pioneer 92B05 Pioneer 92B36 Pioneer 92B52</th></tr></tbody></table>
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Marker	DHY		8	7	- (	7	7	
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	DIA		<b>V</b> 1		• ∢		æ	
	ACE	•	∢ <	₹ <	< <		∢	
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ACO3	7	, *-	• •		-		<del>-</del>	
ACO2		7	2	7	7	c	7	
Variety		Ploneer 92B38	Pioneer 92B05	Pioneer 92B36	Pioneer 92B52	Pioneeer 07Bs3*	F0070 :>>>	-

Table 1. Isozyme marker loci data for 92B38.

\*added as per 3/5/01 inquiry from PVP office

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U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE		n accordance with the Privacy Act of
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to decertificate is to be issued (7 U.S.C. 2	(421). The information is held
1. NAME OF APPLICANT(S)	confidential until the certificate is issue 2. TEMPORARY DESIGNATION	2. VARIETY NAME
Pioneer Hi-Bred International, Inc.	OR EXPERIMENTAL NUMBER	92B38
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (Include area code)	6. FAX (Include area code)
7300 NW 62 <sup>nd</sup> Avenue P. O. Box 1004	515-254-2638	515-253-2288
Johnston, IA 50131-1004	7. PVPO NUMBER	1.00000
,	M. 5 0 0	10000
8. Does the applicant own all rights to the variety? Mark an "X" in the If no, please explain.	e appropriate block.	X YES NO
9. Is the applicant (individual or company) a U.S. National or a U.S. If no, give name of country	based company?	X YES NO
10. Is the applicant the original owner?	If no, please answer one of the fol	llowing:
a. If the original rights to variety were owned by individual(s), is	(are) the original owner(s) a H.S. Nation	nal(e)?
YES NO If no, give name of country		ы(о):
b. If the original rights to variety were owned by a company(ies)		sed company?
YES NO If no, give name of country	гу	
11. Additional explanation on ownership (If needed, use the reverse	for extra space):	
•		
Please Note:	V	
Plant variety protection can only be afforded to the owners (not licens	sees) who meet the following criteria:	
If the rights to the variety are owned by the original breeder, that protection of a country which affords similar protection to nationals or the country which affords similar protection.	erson must be a U.S. national, national f the U.S. for the same genus and spec	of a UPOV member country, or ies.
<ol><li>If the rights to the variety are owned by the company which employ nationals of a UPOV member country, or owned by nationals of a genus and species.</li></ol>	yed the original breeder(s), the company country which affords similar protection	y must be U.S. based, owned by to nationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the	original owner and the applicant must n	neet one of the above criteria.
The original breeder/owner may be the individual or company who dis Act for definitions.	rected the final breeding. See Section 4	41(a)(2) ot the Plant Variety Protection
According to the Paperwork Reduction Act of 1995, no persons are required to respond to a for this information collection is 0.881.0055. The time required to complete this information of	collection of information unless it displays a valid ON	//B control number. The valid OMB control number

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